



To: PATENT
Suggested reviewer: J. Weinick

Date: April 7, 1999

Please review and return (or FAX 732-949-2822) before April 28, 1999.

for a talk intended for presentation at
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Title: How to Protect Against a Militant Spammer

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Reviews:

The following individual(s) have been notified of the intention to release this material:
PATENT - Suggested Reviewer: J. Weinick

Additional Information:

The author's organization has answered the following questions as indicated:

* Is any of the work discussed supported by government funds? no

Abstract:

We consider how to avoid unsolicited email - so called spam - in a stronger adversarial model than what has previously been considered. Our primary concern is the proposal of an architecture and of protocols preventing against successful spamming attacks launched by a strong attacker. This attacker is assumed to control the communication media and to be capable of corrupting large numbers of protocol participants. Secondly, we show how services such as message integrity and message privacy can be obtained virtually for free by using the structures put in place for spam protection. A final issue we are concerned with is how to produce protocols that have the property that the bulk of the computational requirements and storage requirements are shifted towards one of the participants, in order to reflect the desired power balance and to avoid denial-in-service attacks. This results in a simple and efficient solution that is largely backwards-compatible, and which addresses many of the concerns surrounding email communication.

Recommendation:

Approved

SEND ALL COMMENTS DIRECTLY TO FIRST Lucent Technologies AUTHOR

ON HOLD until further notice: I will discuss issues with author.



J. M. Mainz

Patent Attorney

4/21/99

Date

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